

## EAST Search History

S13 6	7	((("4533935") or ("4785157") or ("3148129") or ("4485370") or ("5547881") or ("4707909")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/04 12:12
S13 7	1	10/753241	US-PGPUB; USPAT	OR	ON	2006/11/05 22:04
S13 8	2	("3148129").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/05 22:08
S13 9	544096	oxygen	US-PGPUB; USPAT	OR	ON	2006/11/05 22:08
S14 0	1488253	solution	US-PGPUB; USPAT	OR	ON	2006/11/05 22:08
S14 1	36111	S139 with S140	US-PGPUB; USPAT	OR	ON	2006/11/05 22:08
S14 2	1956667	pressu\$8	US-PGPUB; USPAT	OR	ON	2006/11/05 22:09
S14 3	5827	S141 same S142	US-PGPUB; USPAT	OR	ON	2006/11/05 22:09
S14 4	321224	oxidi\$6	US-PGPUB; USPAT	OR	ON	2006/11/05 22:10
S14 5	775	S143 same S144	US-PGPUB; USPAT	OR	ON	2006/11/05 22:10
S14 6	336940	resistor	US-PGPUB; USPAT	OR	ON	2006/11/05 22:10
S14 7	16	S145 and S146	US-PGPUB; USPAT	OR	ON	2006/11/05 22:10
S14 8	12	S147 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/11/05 22:13
S14 9	711	S144 with S146	US-PGPUB; USPAT	OR	ON	2006/11/05 22:14
S15 0	2	S143 and S149	US-PGPUB; USPAT	OR	ON	2006/11/05 22:14
S15 1	475076	oxidizing oxidation oxidization oxidized	US-PGPUB; USPAT	OR	ON	2006/11/06 09:08
S15 2	1488253	solution	US-PGPUB; USPAT	OR	ON	2006/11/06 09:21
S15 3	53251	S151 with S152	US-PGPUB; USPAT	OR	ON	2006/11/06 09:09
S15 4	409250	resistor resistive	US-PGPUB; USPAT	OR	ON	2006/11/06 09:09
S15 5	2297	S153 and S154	US-PGPUB; USPAT	OR	ON	2006/11/06 09:09
S15 6	1344477	resistor resistive resistance	US-PGPUB; USPAT	OR	ON	2006/11/06 09:09

## EAST Search History

S15 7	1043	S151 with S152 with S156	US-PGPUB; USPAT	OR	ON	2006/11/06 09:20
S15 9	646	S157 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/11/06 09:23
S16 0	567217	oxygen ozone	US-PGPUB; USPAT	OR	ON	2006/11/06 09:11
S16 1	288	S159 and S160	US-PGPUB; USPAT	OR	ON	2006/11/06 09:12
S16 2	40007	S152 with S160	US-PGPUB; USPAT	OR	ON	2006/11/06 09:15
S16 3	88	S159 and S162	US-PGPUB; USPAT	OR	ON	2006/11/06 09:12
S16 4	1918209	pressure	US-PGPUB; USPAT	OR	ON	2006/11/06 09:12
S16 5	58	S163 and S164	US-PGPUB; USPAT	OR	ON	2006/11/06 09:12
S16 6	1956667	pressu\$8	US-PGPUB; USPAT	OR	ON	2006/11/06 09:15
S16 7	3091	S152 with S160 with S166	US-PGPUB; USPAT	OR	ON	2006/11/06 09:16
S16 8	9	S159 and S167	US-PGPUB; USPAT	OR	ON	2006/11/06 09:16
S16 9	6454	S151 with S152 with S160	US-PGPUB; USPAT	OR	ON	2006/11/06 09:20
S17 0	2148387	solution liquid electrolyt\$3	US-PGPUB; USPAT	OR	ON	2006/11/06 09:21
S17 1	9350	S160 with S166 with S170	US-PGPUB; USPAT	OR	ON	2006/11/06 09:22
S17 2	884	S169 and S171	US-PGPUB; USPAT	OR	ON	2006/11/06 09:23
S17 3	260	S156 and S172	US-PGPUB; USPAT	OR	ON	2006/11/06 09:23
S17 4	133	S173 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/11/06 09:23

## EAST Search History

S62	180	S60 with S61	US-PGPUB; USPAT	OR	ON	2005/11/05 15:26
S63	121	S62 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2005/11/05 15:26
S64	514988	semiconductor	US-PGPUB; USPAT	OR	ON	2005/11/05 15:26
S65	41	S63 and S64	US-PGPUB; USPAT	OR	ON	2005/11/05 15:26
S66	385904	resistor resistive	US-PGPUB; USPAT	OR	ON	2006/03/22 11:43
S67	549623	oxidizing oxidation oxidization oxidized nitrid\$7	US-PGPUB; USPAT	OR	ON	2006/03/22 11:42
S68	755860	laser beam	US-PGPUB; USPAT	OR	ON	2006/03/22 11:43
S69	12780	S67 with S68	US-PGPUB; USPAT	OR	ON	2006/03/22 11:43
S70	47263	S66 and S67	US-PGPUB; USPAT	OR	ON	2006/03/22 11:44
S71	2135	S66 and S69	US-PGPUB; USPAT	OR	ON	2006/03/22 11:44
S72	422	oxgen	US-PGPUB; USPAT	OR	ON	2006/03/22 11:45
S73	509436	oxygen	US-PGPUB; USPAT	OR	ON	2006/03/22 11:45
S74	88450	S67 with S73	US-PGPUB; USPAT	OR	ON	2006/03/22 11:45
S75	461	S71 and S74	US-PGPUB; USPAT	OR	ON	2006/03/22 11:45
S76	205	S75 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 11:46
S77	385904	resistor resistive	US-PGPUB; USPAT	OR	ON	2006/03/22 15:07
S78	549623	oxidizing oxidation oxidization oxidized nitrid\$7	US-PGPUB; USPAT	OR	ON	2006/03/22 13:27
S79	755860	laser beam	US-PGPUB; USPAT	OR	ON	2006/03/22 13:27
S80	12780	S78 with S79	US-PGPUB; USPAT	OR	ON	2006/03/22 15:07
S81	2135	S77 and S80	US-PGPUB; USPAT	OR	ON	2006/03/22 15:01
S82	509436	oxygen	US-PGPUB; USPAT	OR	ON	2006/03/22 13:27
S83	88450	S78 with S82	US-PGPUB; USPAT	OR	ON	2006/03/22 13:27

## EAST Search History

S84	461	S81 and S83	US-PGPUB; USPAT	OR	ON	2006/03/22 13:27
S85	205	S84 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 15:08
S86	8	("3056881"   "3889272"   "4146673"   "4242152"   "4395436"   "4489230"). PN. OR ("4785157").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:55
S87	263	S77 same S80	US-PGPUB; USPAT	OR	ON	2006/03/22 15:01
S88	137	S87 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 15:01
S89	552485	semiconduct\$3	US-PGPUB; USPAT	OR	ON	2006/03/22 15:08
S90	104	S88 and S89	US-PGPUB; USPAT	OR	ON	2006/03/22 15:02
S91	1261345	resistor resistive resistance	US-PGPUB; USPAT	OR	ON	2006/03/22 15:07
S92	1088961	resistance	US-PGPUB; USPAT	OR	ON	2006/03/22 16:35
S93	565	S78 with S79 with S92	US-PGPUB; USPAT	OR	ON	2006/03/22 15:07
S94	841568	semiconduct\$3 silicon	US-PGPUB; USPAT	OR	ON	2006/03/22 15:08
S95	479	S93 and S94	US-PGPUB; USPAT	OR	ON	2006/03/22 15:08
S96	160	S95 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 16:37
S97	36	S77 and S96	US-PGPUB; USPAT	OR	ON	2006/03/22 16:34
S98	744328	ion electron	US-PGPUB; USPAT	OR	ON	2006/03/22 16:42
S99	30662	S92 with S98	US-PGPUB; USPAT	OR	ON	2006/03/22 16:35
S10 0	1421	S92 with S98 with S78	US-PGPUB; USPAT	OR	ON	2006/03/22 16:44
S10 1	177	S77 and S94 and S100	US-PGPUB; USPAT	OR	ON	2006/03/22 16:44
S10 2	90	S101 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 16:45
S10 3	80	S102 not S97	US-PGPUB; USPAT	OR	ON	2006/03/22 16:40
S10 4	25	S103 and "438"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/03/22 16:52

## EAST Search History

S10 5	126409	(ion electron) near5 beam	US-PGPUB; USPAT	OR	ON	2006/03/22 16:42
S10 6	113	S92 with S105 with S78	US-PGPUB; USPAT	OR	ON	2006/03/22 16:48
S10 7	8	S77 and S94 and S106	US-PGPUB; USPAT	OR	ON	2006/03/22 16:48
S10 8	8	S107 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 16:49
S10 9	4802	S92 with S105	US-PGPUB; USPAT	OR	ON	2006/03/22 16:48
S11 0	541	S77 and S94 and S109	US-PGPUB; USPAT	OR	ON	2006/03/22 16:49
S11 1	311	S78 and S110	US-PGPUB; USPAT	OR	ON	2006/03/22 16:49
S11 2	187	S111 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/22 16:49
S11 3	18	S112 and "438"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/03/22 16:52
S11 4	386254	resistor resistive	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S11 5	550390	oxidizing oxidation oxidization oxidized nitrid\$7	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S11 6	1090201	resistance	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S11 7	842817	semiconduct\$3 silicon	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S11 8	126613	(ion electron) near5 beam	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S11 9	4811	S116 with S118	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S12 0	543	S114 and S117 and S119	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S12 1	313	S115 and S120	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S12 2	187	S121 and @ad<"20001114"	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S12 3	18	S122 and "438"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/03/23 08:30
S12 4	1	("3148129").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/23 14:52
S13 4	2	((("20040217432") or ("20040185624")).PN.	US-PGPUB; USPAT	OR	OFF	2006/08/26 16:34
S13 5	1	10/753241	US-PGPUB; USPAT	OR	ON	2006/08/26 16:34